

Application No.: 10/089,532Docket No.: H0681,0007

### REMARKS

Claims 21 - 37 and 40 - 41 are in the case. Claims 1 - 20 and 38 - 39 were canceled without prejudice. New claims 40 and 41 were added. Claims 22 - 23, 29 - 31, and 35 - 37 were amended. The Examiner is respectfully requested to reconsider the subject application in view of the above amendments and the following remarks.

Claim 22 was rejected under 35 U.S.C. § 112, second paragraph, for the reasons stated on page 2 of the Office Action. In response, applicant amended claim 22 to depend from claim 24 according to the Examiner's suggestion, which is appreciated by applicant. The above rejection is thus believed to be overcome.

Claims 21 - 26 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,365,246 to *Rasinger et al.* for the reasons stated on page 3 of the Office Action.<sup>1</sup> Applicant respectfully traverses the subject rejection.

Applicant respectfully submits that none of the antennas in *Rasinger* can create two resonant frequency bands as recited in the claimed invention. For example, Figure 5 of *Rasinger* shows an antenna structure in which three sheet-metal angles 2, 3 and 9 extend from the (ground) housing 1. See, column 5, lines 7 to 15. As is with the two-sheet-metal-angle embodiments of Figures 1, 2 and 3, the embodiment shown in Figure 5 produces only one resonant frequency band, not two.

Figure 4 of *Rasinger* shows an antenna arrangement with two part-antennas for diversity operation. As discussed in lines 4 to 6 of column 5, "[b]oth part-antennas are of equal length, resulting in double resonance." The double resonance so created is at a single resonant frequency band because both part-antennas are of equal length. Therefore, the present invention patentably distinguishes over *Rasinger*.

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<sup>1</sup> In the sixth paragraph of the Office action, it is stated that *Rasinger* shows, in Figure 5, a dual-band microstrip antenna designed to operate "on at least two resonant frequency ranges (see col. 3, lines 1 - 5)." Applicant respectfully submits that the disclosure in column 3, lines 1 to 5 of *Rasinger* relates to the structure of Figure 4, not Figure 5.

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To expedite the allowance of the subject application, applicant amended independent claim 23 to recite two resonant frequency bands created by electromagnetic interaction between the first patch structure and the ground member and between the first patch and the pair of second patches. Because *Rasinger* does not disclose the above claim feature, claim 23 as amended is believed to be allowable for such additional reason.

In addition, *Rasinger* does not disclose that the first patch is not directly connected to the ground member as recited in independent claim 24. In contrast, the various sheet-metal angles in *Rasinger* are integrally formed with the ground housing. Therefore, independent claim 24 is believed to be allowable for such additional reason.

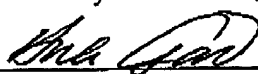
In view of the above, the subject rejection is believed to be overcome. Accordingly, applicant respectfully requests that the subject rejection be withdrawn.

Moreover, newly added claims 40 and 41 are believed to be allowable for at least the same reasons that claim 24 is allowable. Accordingly all pending claims are now in condition for allowance.

No fee is believed to be due for this Amendment. Should any fees be required, please charge such fees to Deposit Account No. 50-2215.

Respectfully submitted,

Dated: June 23, 2005

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